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2. ELECTROPHORETIC DISPLAY DEVICE

PAJ 01-01-01 01005040 JP NDN-043-0198-6005-2

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PATENT APPLICATION NUMBER- 11177354

DATE FILED- 1999-06-23

PUBLICATION NUMBER- 01005040 JP

DOCUMENT TYPE- A

PUBLICATION DATE- 2001-01-12

INTERNATIONAL PATENT CLASS- G02F001167; G09F00937

APPLICANT(S)- CANON INC

PUBLICATION COUNTRY- Japan

PROBLEM TO BE SOLVED: To increase the mobility rate of charged drifting particles.

SOLUTION: When a voltage in positive polarity is applied on a second electrode 5 while the drifting particles 3 are charged into positive polarity, the charged drifting particles 3 are adsorbed to a first electrode 4. When a voltage in negative polarity is applied on the second electrode 5, the charged drifting particles 3 are adsorbed to the second electrode 5. The movement of the charged drifting particles 3 is mainly caused by the electric field generated between the edge of the second electrode 5 (the edge of a part shown as a and b in Fig.(b)). Since the second electrode 5 has a frame-like form surrounding the first electrode 4, the edge length ($2a+2b$)

is made longer compared with an electrode not formed into a frame, and thereby, the mobility rate of the drifting particles 3 is increased.

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Question Number: 1021108.004 File: PAJ Strategy Date: 02/04/99
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